

## **AMENDMENTS TO THE CLAIMS**

The text of all pending claims (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered). The following listing of claims replaces all prior versions, and listings, of claims in this application.

Please CANCEL claims 9 and 18 without prejudice or disclaimer. Please AMEND claims 1, 13-15, and 26 to read as follows.

1. (CURRENTLY AMENDED) A manufacturing method of a fluid jetting apparatus, comprising:

forming a heat driving part, a membrane, and a nozzle part; ~~and~~  
forming a nozzle and jetting fluid chambers sequentially by using one nozzle plate, and assembling the heat driving part, the membrane, and the nozzle part, sequentially; and  
separating the nozzle plate and the substrate after assembling the heat driving part, the membrane, and the nozzle part sequentially.

2. (ORIGINAL) The manufacturing method as claimed in claim 1, wherein the forming of the nozzle comprises:

laminating the nozzle plate on a substrate;  
forming the nozzle in the nozzle plate; and  
forming the jetting fluid chambers by extending the nozzle in a direction.

3. (ORIGINAL) The manufacturing method as claimed in claim 2, further comprising separating the nozzle plate from the substrate.

4. (ORIGINAL) The manufacturing method as claimed in claim 2, wherein the nozzle plate is adhered to the substrate through the laminating of the nozzle plate on the substrate, the manufacturing method further comprising abrading the nozzle plate to have a predetermined thickness before the forming of the nozzle in the nozzle plate.

5. (ORIGINAL) The manufacturing method as claimed in claim 4, wherein the abrading of the nozzle plate comprises chemo-mechanical polishing the nozzle plate to have the predetermined thickness.

6. (ORIGINAL) The manufacturing method as claimed in claim 2, wherein the nozzle plate is made of silicon.

7. (ORIGINAL) The manufacturing method as claimed in claim 2, wherein the forming of the nozzle and the jetting fluid chamber are performed through a lithography, respectively.

8. (ORIGINAL) The manufacturing method as claimed in claim 2, wherein the forming of the jetting fluid chamber comprises performing an anisotropic etching of the lithography.

9. (CANCELLED)

10. (ORIGINAL) The manufacturing method as claimed in claim 1, wherein the forming of the nozzle and jetting fluid chambers are performed prior to assembling the nozzle part to the membrane.

11. (ORIGINAL) The manufacturing method as claimed in claim 1, wherein the assembling of the nozzle part to the membrane comprises using an adhesive or an anodic bonding to fix the nozzle part to the membrane.

12. (ORIGINAL) The manufacturing method as claimed in claim 2, wherein the laminating of the nozzle plate on the substrate comprises:  
forming an insulated layer on the substrate; and  
using an adhesive or an anodic bonding to fix the nozzle plate to the insulated layer.

13. (CURRENTLY AMENDED) A manufacturing method of a fluid jetting apparatus, comprising ~~the steps of~~:

forming a heat driving part, a membrane, and a nozzle part; and  
assembling the heat driving part, the membrane, the nozzle part, sequentially, the step  
assembling of the heat driving part, the membrane, and the nozzle part comprising:  
    laminating a nozzle plate of silicon on a substrate,  
    abrading the nozzle plate to have a predetermined thickness by a chemo-  
    mechanical polishing,  
    forming a nozzle through a lithography,  
    forming a jetting fluid chamber on an area where the nozzle is formed by an  
    anisotropic etching of the lithography, and  
    separating the nozzle plate from the substrate,\_\_\_.

14. (CURRENTLY AMENDED) ~~The manufacturing method as claimed in claim 10A~~  
manufacturing method of a fluid jetting apparatus, comprising:

forming a heat driving part, a membrane, and a nozzle part; and  
forming a nozzle and jetting fluid chambers sequentially by using one nozzle plate, and  
assembling the heat driving part, the membrane, and the nozzle part, sequentially,  
wherein the forming of the nozzle and jetting fluid chambers are performed prior to  
assembling the nozzle part to the membrane, and

wherein the forming of the nozzle and the jetting fluid chambers further comprises  
assembling the nozzle plate to the membrane subsequent to the forming of the jetting fluid  
chamber and prior to ~~the~~ a step of separating of the nozzle plate from the substrate.

15. (CURRENTLY AMENDED) A method of manufacturing a fluid jetting apparatus,  
comprising:

forming a nozzle and jetting fluid chambers in a single piece nozzle plate; ~~and~~  
attaching the nozzle plate with the nozzle and jetting fluid chambers formed therein to a  
membrane of a membrane-heat driving part assembly; and  
separating the nozzle plate from the substrate subsequent to the attaching of the nozzle  
plate to the membrane.

16. (ORIGINAL) The method as claimed in claim 15, wherein the forming of the  
nozzle and jetting fluid chambers comprises:

forming the nozzle in the nozzle plate; and  
forming the jetting fluid chambers by extending the nozzle in a depth direction.

17. (ORIGINAL) The method as claimed in claim 16, wherein the forming of the nozzle and jetting fluid chambers comprises attaching the nozzle plate to a substrate prior to forming the nozzle on the nozzle plate.

18. (CANCELLED)

19. (ORIGINAL) The method as claimed in claim 17, further comprising abrading the nozzle plate to a predetermined thickness subsequent to attaching the nozzle plate to the substrate and prior to forming the nozzle on the nozzle plate.

20. (WITHDRAWN) The method as claimed in claim 16, wherein:  
the forming of the nozzle is performed by lithography; and  
the forming of the jetting fluid chambers is performed by an anisotropic etching in a vertical direction of the nozzle plate, to etch a surface of the nozzle plate to a uniform depth and simultaneously fully form the nozzle.

21. (ORIGINAL) A method of manufacturing a fluid jetting apparatus, comprising:  
attaching a nozzle plate to a first substrate and forming a nozzle and jetting fluid chambers in the nozzle plate attached to the first substrate; and  
attaching the nozzle plate attached to the first substrate to a membrane attached to a heat driving part which is attached to a second substrate; and  
removing the first substrate from the nozzle plate subsequent to the attaching of the nozzle plate to the membrane.

22. (ORIGINAL) The method as claimed in claim 21, wherein the membrane attached to the heat driving part which is attached to the second substrate is formed by a method of:

attaching the heat driving part to the second substrate; and  
attaching the membrane to the heat driving part attached to the second substrate.

23. (ORIGINAL) The method as claimed in claim 21, wherein the forming of the nozzle and the jetting fluid chambers in the nozzle plate comprises:

forming the nozzle in the nozzle plate; and

forming the jetting fluid chambers by extending the nozzle in a depth direction.

24. (ORIGINAL) The method as claimed in claim 23, wherein the nozzle plate is a single piece of silicon.

25. (ORIGINAL) The method as claimed in claim 23, further comprising abrading the nozzle plate prior to forming the nozzle in the nozzle plate.

26. (CURRENTLY AMENDED) The method as claimed in claim 23, wherein the forming of the nozzle and the forming of the jetting fluid chambers are performed through a lithography.